

Claims

1. Propeller blower for substantially axial outflow of sucked in air with an impeller disk (2) rotary driven around an axis of rotation (3) and limiting the flow channel on the inside, comprising blades (1), which are, viewed in the blade area between blade entrance edge (22) and blade discharge edge, bent in flow direction (30), characterised in that each blade (1) is formed in the shape of an oyster shell having a longitudinal extension, the end portion (20) of which is connected with the impeller disk (2) in form of a penetration (6), and the other, free end portion (21) of which extends radially outwards and with increasing radial distance with an axial component in flow direction, and that the blades (1) are bent towards the circumferential direction (5) of the rotary drive of the impeller disk (2).
2. Propeller blower according to claim 1, characterised in that the conveying blades (1) are arranged almost perpendicularly to the vector of the direction of rotation in the vicinity of the axis of rotation (3) and the entrance edges (22) of the blades are bent from the inside to the outer edge concavely to the direction of rotation (5).
3. Propeller blower according to one of the claims 1 or 2, characterised in that the radially inner extensions of the blades have a radial distance to the axis of rotation (3), and the dedendum line (6) points past the

axis of rotation (3) in the direction of rotation.

4. Propeller blower according to one of the claims 1 to 3, characterised in that an indentation (4) is formed on the impeller disk (2) in the area before the dedendum line (6).